

# WEST Search History

DATE: Wednesday, January 22, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
			result set
<i>DB=DWPI; PLUR=YES; OP=ADJ</i>			
L12	l8 and l9	19	L12
L11	l8 and l9 and L10	0	L11
L10	web	94234	L10
L9	layers	1008808	L9
L8	l6 and L7	517	L8
L7	Polyester same (fibres or fibers)	41925	L7
L6	l4 and l5	3162	L6
L5	fabric or textile	183910	L5
L4	l2 and l2 and l3	6501	L4
L3	treatment or finish	527234	L3
L2	dyed or dyeing	37369	L2
L1	nonwoven or non-woven or unwoven or un-woven	38553	L1

END OF SEARCH HISTORY

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L12: Entry 7 of 19

File: DWPI

May 3, 1990

DERWENT-ACC-NO: 1990-164045

DERWENT-WEEK: 199739

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TITLE: Polyurethane resin-coated polyester fibre fabric - contg. porous inorganic particles attacged to fibre

INVENTOR: IKEYAMA, M; NAKABE, I ; TOHYAMA, S

PRIORITY-DATA: 1989JP-0066851 (March 16, 1989), 1988JP-0263412 (October 19, 1988),  
1990US-0560623 (July 31, 1990), 1992US-0915620 (July 21, 1992)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9004671 A	May 3, 1990		000	
JP 02216262 A	August 29, 1990		000	
EP 396765 A	November 14, 1990		000	
JP 02251672 A	October 9, 1990		000	
US 5154966 A	October 13, 1992		005	B32B033/00
US 5266354 A	November 30, 1993		005	B05D001/36
KR 9304513 B1	May 27, 1993		000	D06M011/00
EP 396765 B1	July 6, 1994	E	013	D06M011/00
DE 68916639 E	August 11, 1994		000	D06M011/00
EP 396765 A4	May 13, 1992		000	
JP 95078310 B2	August 23, 1995		004	D06M015/00
JP 2535403 B2	September 18, 1996		004	D06M011/79

INT-CL (IPC): B05D 1/36; B32B 33/00; D06M 11/00; D06M 11/12; D06M 11/46; D06M 11/79;  
D06M 15/00; D06M 101/32; D06M 101/32; D06N 11/00; D06P 5/02; D06P 5/22

ABSTRACTED-PUB-NO: EP 396765B

## BASIC-ABSTRACT:

A coated polyester fibre fabric has attached to the fibre surface porous inorganic fine particles having pores of average diameter smaller than 150A, pref. 10-100A, the particles being included in a resin coating membrane.

The inorganic particles are SiO<sub>2</sub>, TiO<sub>2</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> or activated charcoal; the particles have a surface area of at least 200 m<sup>2</sup>/g and an average size of 10-50 micron pref. less than 15 micron m. The resin is a polyurethane. Amt. of inorganic particles is 1.5-10 wt.% w.r.t. fibres.

ADVANTAGE - The fabric is free from stain due to migration of dispersed dyes.

ABSTRACTED-PUB-NO:

## US 5154966A EQUIVALENT-ABSTRACTS:

A coated fabric comprising polyester fibres dyed with dye stuff molecules, and at least one resinous coating layer, characterised in that (a) additionally providing fine porous inorganic particles being adhered to the surface of the polyester fibres; (b) said particles comprise an average particle size in the range of 1 to 100 nm; (c) said particles comprise fine pores having a pore diameter of 15 nm or less; and (d) said particles comprise a surface area of 200 m<sup>2</sup>/g or more.

A coated fabric of a polyester fibre comprising at least one of a fibre surface and a coating resin film (pref. polyurethane resin) is new. At least one of the fibre surface and coating resin film includes a porous fine inorganic particle (pref. silicon dioxide, titanium oxide etc.). The particle has fine pores with a pore dia. of not greater than 150 (pref. 10-100 Angstroms) and a surface area of at least 200 m<sup>2</sup>/g. USE/ADVANTAGE - The coated fabric does not exhibit any staining due to dye migration, and is waterproof exhibiting both breathable and water-vapour permeable characteristics.

US 5266354A

The prepn. of a coated fabric of a polyester fibre, comprises: adhering to the surface of a fabric of a polyester fibre porous fine inorganic particles (I) having fine pores with an average pore dia. of up to 150 Å, the porous fine inorganic particles are fine particles each with a surface area of 200 m<sup>2</sup>/g or more; and performing a coating treatment on the surface.

Pref. (I) has an average particle dia. of 10-50 nm.

USE - Fabrics resistant to staining by dye migration are mfrd. using the coating.

WO 9004671A

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File: DWPI

Feb 5, 1992

DERWENT-ACC-NO: 1992-091837

DERWENT-WEEK: 199609

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TITLE: Coated fabric made of polyester fibre - prep'd. by coating disperse dyed fabric with coating layer of e.g. polyurethane having crosslinked structure

PRIORITY-DATA: 1990JP-0134772 (May 24, 1990)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04034083 A	February 5, 1992		007	
JP 96009832 B2	January 31, 1996		006	D06M015/564

INT-CL (IPC): B32B 27/12; D06M 10/08; D06M 10/10; D06M 15/19; D06M 15/248; D06M 15/564; D06M 101/32; D06M 101/32; D06P 5/00

ABSTRACTED-PUB-NO: JP 04034083A

## BASIC-ABSTRACT:

Fabric made of polyester fibre dyed with disperse dye is coated with a coating layer which has a crosslinking structure. The crosslinking is physically generated.

The coating layers pref. comprise polyurethane, polyacrylics, PVC or PVAc. To generate crosslinking in the coating layer, irradiation by UV or radiation, or treatment with low temp. plasma is used.

ADVANTAGE - Migration of the disperse dye into the coating layer is prevented.

ABSTRACTED-PUB-NO:

## JP 96009832B EQUIVALENT-ABSTRACTS:

Fabric made of polyester fibre dyed with dispers dye is coated with a coating layer which has a crosslinking structure. The crosslinking is physically generated, by UV irradiation or treatment with low temp plasma. The coating layers pref. comprise polyurethane, polyacrylics, PVC or PVAc.

ADVANTAGE - Migration of the disperse dye into the coating layer is prevented.

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 2 of 2 returned.** 1. Document ID: US 5266354 A

L13: Entry 1 of 2

File: USPT

Nov 30, 1993

US-PAT-NO: 5266354

DOCUMENT-IDENTIFIER: US 5266354 A

TITLE: Coated fabric of a polyester fiber and a method for preparation thereof

DATE-ISSUED: November 30, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tohyama; Syunroku	Shiga			JP
Ikeyama; Masami	Yokkaichi			JP
Nakabe; Ikuko	Ibaraki			JP

US-CL-CURRENT: 427/203; 427/204, 427/205, 427/412.5

## ABSTRACT:

The present invention relates to a coated fabric of a polyester fiber exhibiting no staining caused by migration of a dispersed dye and a method for preparation thereof. The present invention catches a dye migrating in a resin by using fine inorganic particles having dye-absorption capabilities to confine dye molecules in fine pores thereof, and to prevent the surface of another fabric from staining due to dye-migration.

4 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 5154966 A

L13: Entry 2 of 2

File: USPT

Oct 13, 1992

US-PAT-NO: 5154966

DOCUMENT-IDENTIFIER: US 5154966 A

TITLE: Coated fabric of a polyester fiber and a method for preparation thereof

DATE-ISSUED: October 13, 1992

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tohyama; Syunroku	Shiga			JP
Ikeyama; Masami	Youkaichi			JP
Nakabe; Ikuko	Ibaraki			JP

US-CL-CURRENT: 442/73; 428/306.6, 428/307.3, 428/313.7, 428/313.9, 428/315.5,  
428/315.7, 428/315.9, 428/328, 428/331, 428/423.7, 442/164

**ABSTRACT:**

The present invention relates to a coated fabric of a polyester fiber exhibiting no staining caused by migration of a dispersed dye and a method for preparation thereof. The present invention catches a dye migrating in a resin by using fine inorganic particles having dye-absorption capabilities to confine dye molecules in fine pores thereof, and to prevent the surface of another fabric from staining due to dye-migration.

6 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

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Term	Documents
"5154966"[USPT]	1
5154966S	0
"5266354"[USPT]	1
5266354S	0
("5154966" OR "5266354")[PN].USPT.	2
((5154966 OR 5266354)[PN]).USPT.	2

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